

IN THE CLAIMS

Claims 1, 6 and 7 have been amended herein. New claims 12-16 have been added herein.

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A method of performing a measurement on a biological fluid in a test strip comprising:

providing a biological fluid test strip including

a capillary fill chamber extending a length along the test strip from an intake opening to a terminus,

a first pair of electrodes in operative communication with the chamber,

and

a second pair of electrodes in operative communication with the chamber;

dosing the test strip with a biological fluid effective to cause the biological fluid to flow from the intake opening toward the terminus;

applying a first test signal to one of the first pair of electrodes;

measuring a first response to the first test signal at the other of the first pair of electrodes;

maintaining the first pair of electrodes in an inoperative state ~~upon~~ after the measuring the first response;

applying a second test signal to one of the second pair of electrodes, wherein the second test signal is a signal having an AC component;

measuring a second response to the second test signal at the other of the second pair of electrodes; and

performing a measurement upon the biological fluid after the measuring the second response.

2. (Original) The method of claim 1 wherein the measuring the first response to the first test signal is effective to indicate a contact of the first pair of electrodes and the biological fluid.

3. (Original) The method of claim 1 wherein the measuring the second response to the second test signal is effective to indicate a contact of the second pair of electrodes and the biological fluid.

4. (Original) The method of claim 1 wherein the measuring the first response to the first test signal is effective to indicate a contact of the first pair of electrodes and the biological fluid and the measuring the second response to the second test signal is effective to indicate a contact of the second pair of electrodes and the biological fluid.

5. (Original) The method of claim 1 wherein the performing a measurement upon the biological fluid includes applying a measurement test signal to one of the first pair of electrodes.

6. (Currently Amended) The method of claim 1 further comprising providing a third pair of measurement electrodes in operative communication with the chamber wherein the performing a measurement upon the biological fluid includes applying a measurement test signal to one of the ~~measurement~~ third pair of electrodes.

7. (Currently Amended) A method of indicating acceptable fill time of a biological fluid in a test strip comprising:

providing a biological fluid test strip including

a capillary fill chamber extending a length along the test strip from an intake opening to a terminus,

a first pair of electrodes in operative communication with the chamber,

and

a second pair of electrodes in operative communication with the chamber;
and
a third pair of electrodes in operative communication with the chamber;
dosing the test strip with a biological fluid effective to cause the biological fluid to flow from the intake opening toward the terminus;
flowing a biological fluid from the opening toward the terminus;
first determining when the biological fluid contacts the first electrodes;
second determining when the biological fluid contacts the second electrodes;
determining a fill time value based upon the first determining and the second determining; ~~and~~
comparing the fill time value to a predetermined value; and
third measuring an analyte concentration of the biological fluid using the third electrodes.

8. (Original) The method of claim 7 further comprising:

indicating an error condition if the fill time value exceeds the predetermined value.

9. (Original) The method of claim 7 further comprising:

indicating an error condition if the fill time value is greater than or equal to the predetermined value.

10. (Original) The method of claim 7 further comprising:

performing a measurement upon the biological fluid if the fill time value is less than the predetermined value.

11. (Original) The method of claim 7 further comprising:

performing a measurement upon the biological fluid if the fill time value is less than or equal to the predetermined value.

12. (New) A method of performing a measurement on a biological fluid in a test strip comprising:

providing a biological fluid test strip including

a capillary fill chamber extending a length along the test strip from an intake opening to a terminus,

a first pair of electrodes in operative communication with the chamber;

a second pair of electrodes in operative communication with the chamber;

and

a third pair of electrodes in operative communication with the chamber;

dosing the test strip with a biological fluid effective to cause the biological fluid to flow from the intake opening toward the terminus;

applying a first test signal to one of the first pair of electrodes;

measuring a first response to the first test signal at the other of the first pair of electrodes;

maintaining the first pair of electrodes in an inoperative state after the measuring the first response;

applying a second test signal to one of the second pair of electrodes;

measuring a second response to the second test signal at the other of the second pair of electrodes;

applying a measurement test signal to one of the third pair of electrodes after the measuring the second response;

measuring a third response to the third test signal at the other of the third pair of electrodes; and

determining a concentration of an analyte in the biological fluid using the third response.

13. (New) The method of claim 12 wherein the measuring the first response to the first test signal is effective to indicate a contact of the first pair of electrodes and the biological fluid.

14. (New) The method of claim 12 wherein the measuring the second response to the second test signal is effective to indicate a contact of the second pair of electrodes and the biological fluid.

15. (New) The method of claim 12 wherein the measuring the first response to the first test signal is effective to indicate a contact of the first pair of electrodes and the biological fluid and the measuring the second response to the second test signal is effective to indicate a contact of the second pair of electrodes and the biological fluid.

16. (New) The method of claim 1 wherein the second test signal is an AC signal.